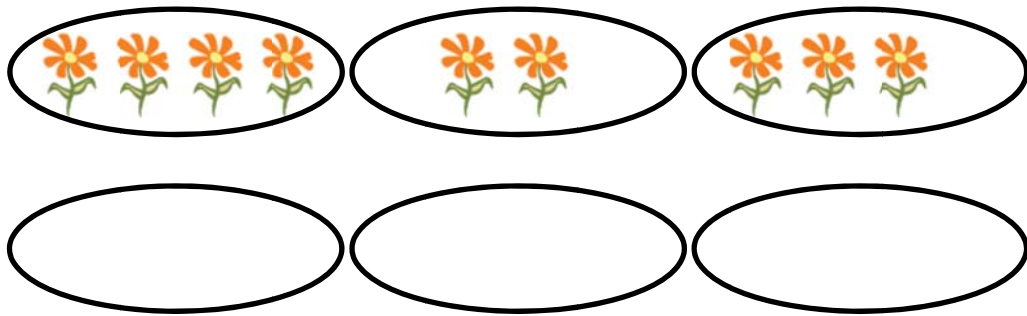


Module 6 Problem Set Excerpts

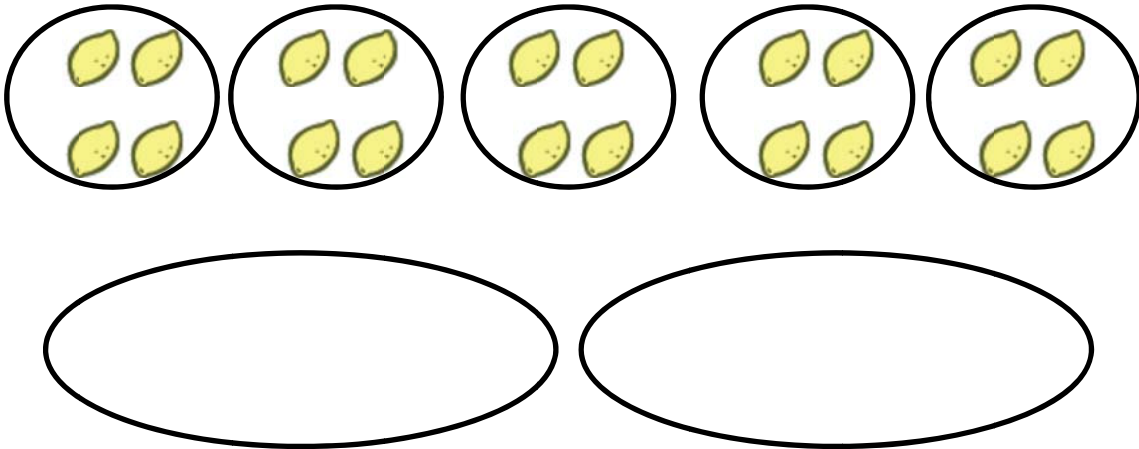
Lesson 1: Lesson Objective: Use manipulatives to create equal groups.

5. Redraw the flowers to make each of the 3 groups have an equal number.



3 groups of _____ flowers = _____ flowers

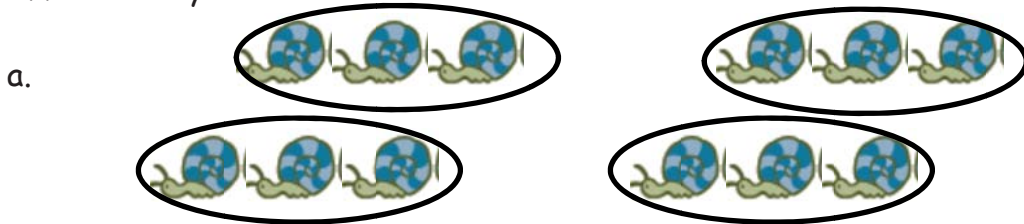
6. Redraw the lemons to make 2 equal size groups.



2 groups of _____ lemons = _____ lemons

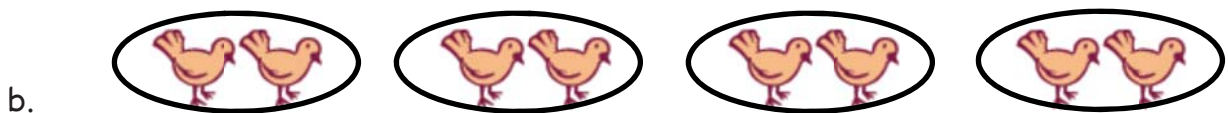
Lesson 3: Lesson Objective: Use math drawings to represent equal groups, and relate to repeated addition.

1. Write an addition sentence to match the picture. Then bundle to show a more efficient way to add.



$$\begin{array}{ccccccc} \underline{\quad} & + & \underline{\quad} & + & \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \\ \backslash & & / & & \backslash & & / & & \\ \underline{\quad} & & + & & \underline{\quad} & & = & & \underline{\quad} \end{array}$$

4 groups of $\underline{\quad}$ = 2 groups of $\underline{\quad}$



$$\begin{array}{ccccccc} \underline{\quad} & + & \underline{\quad} & + & \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \\ & & \underline{\quad} & + & \underline{\quad} & = & \underline{\quad} \end{array}$$

4 groups of $\underline{\quad}$ = 2 groups of $\underline{\quad}$

Lesson 6: Lesson Objective: Decompose arrays into rows and columns, and relate to repeated addition.

1. Use the array of triangles to answer the questions below.

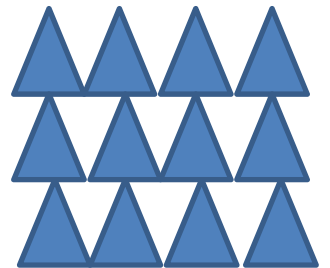
a. ____ rows of ____ = 12

b. ____ columns of ____ = 12

c. ____ + ____ + ____ = ____

d. Add 1 more row. How many triangles are there now? ____

e. Add 1 more column to the new array you made in 2(d). How many triangles are there now? ____



2. Use the array of squares to answer the questions below.

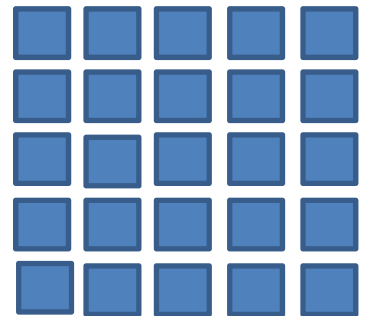
a. ____ + ____ + ____ + ____ + ____ = ____

b. ____ rows of ____ = ____

c. ____ columns of ____ = ____

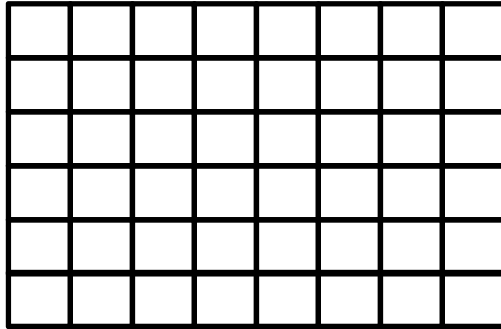
d. Remove 1 row. How many squares are there now? ____

e. Remove 1 column from the new array you made in 3(d). How many squares are there now? ____



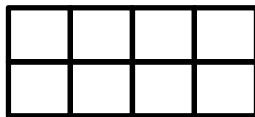
Lesson 15: Lesson Objective: Use math drawings to partition a rectangle with square tiles, and relate to repeated addition.

3. Shade in an array with 5 columns of 4.



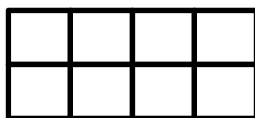
Write a repeated addition sentence for the array.

4. Draw one more column of 2 to make a new array.



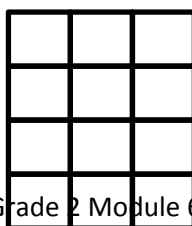
Write a repeated addition sentence for the new array.

5. Draw one more row of 4 and then one more column to make a new array.



Write a repeated addition sentence for the new array.

6. Draw one more row and then two more columns to make a new array.



Write a repeated addition sentence for the new array.

Lesson 16: Lesson Objective: Use grid paper to create designs to develop spatial structuring.

Use your square tiles and grid paper to complete the following.

Problem 1

- a. Cut out 10 square tiles.
- b. Cut one of your square tiles in half diagonally.
- c. Create a design.
- d. Shade in your design on grid paper.

Problem 2

- a. Use 16 square tiles.
- b. Cut two of your square tiles in half diagonally.
- c. Create a design.
- d. Shade in your design on grid paper.
- e. Share your second design with your partner.
- f. Check each other's copy to be sure it matches the tile design.

